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 TI Biologically active material and process for its preparation
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 PA Chemickotechnologicka Fakulta Stu, Slovakia
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AB The prepn. of bioactive ossifying material suitable for bone implants in reconstructive surgery is described. The prepn. contains Ca **phosphate** and/or Ca fluorophosphate particles 0.1-0.6 mm mixed with atelocollagen I in mass ratios of 1.5:1 to 50:1. Atelocollagen I can be prepd. by enzymic hydrolysis of bovine tendons. The prepn. can further contain 0.01-5.0% **hyaluronic** acid or its salts (related to material dry matter), 1-20% **bone** morphogenetic **proteins** extd. from bovine bones, and adjuvants components (blood, blood plasma, artificial body fluids). During prepn. the components are homogenized together. The formed ppt. is formed into desired implant shape or dried and powd. The material is sterilized by .gamma.-radiation. Before use the powd. material is reconstituted with physiol. fluids and formed into desired shapes. The biol. compatibility was tested in dogs with exptl. tibial bone injury.